PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03-F-087PCT	FOR FURTHER ACT	rion	See Form PCT/IPEA/416			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/JP2003/013928	30 October 2003	(30.10.2003)	30 October 2002 (30.10.2002)			
International Patent Classification (IPC) or national classification and IPC C22C 1/02, G06F 17/50						
Applicant NATIONAL INSTITUTE FOR MATERIALS SCIENCE						
This report is the international preli- Authority under Article 35 and tran-	minary examination repor smitted to the applicant ac	rt, established by this coording to Article 3	s International Preliminary Examining 6.			
This REPORT consists of a total of	4 sheets, i	including this cover	sheet.			
3. This report is also accompanied by		J				
•	d to the International Bur	eau) a total of	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the						
Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the report						
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defe	Box No. VII Certain defects in the international application					
Box No. VIII Certain obse	ervations on the internatio	nal application				
Date of submission of the demand		Date of completion	of this report			
05 April 2004 (05.04	1.2004)	25	August 2004 (25.08.2004)			
Name and mailing address of the IPEA/JF	•	Authorized officer				
Facsimile No.		Telephone No.				

Translation

International application No.

PCT/JP2003/013928

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. I		is of the report	
otherw	rise indica	the language, this report is based on the international application in the language in whic ated under this item.	
	This rep	ort is based on translations from the original language into the following language language of a translation furnished for the purpose of:	
•	inte	ernational search (under Rules 12.3 and 23.1(b))	
		blication of the international application (under Rule 12.4)	
		ernational preliminary examination (under Rules 55.2 and/or 55.3)	
furnisi and ar	hed to the re not an	o the elements of the international application, this report is based on (replacement e receiving Office in response to an invitation under Article 14 are referred to in this r nexed to this report):	sheets which have been eport as "originally filed"
\boxtimes	The inter	rnational application as originally filed/furnished	
	the desci	ription:	in-illy filed/furnished
-	pages		, as originally filed/furnished
i	pages*	received by this Authority on	
1	pages*	received by this Authority on	
	the clain	ns:	
🖳	pages	·	, as originally filed/furnished
	pages*	, as amended (together with a	ny statement) under Article 19
ļ	pages*	received by this Authority on	
	pages*	received by this Authority on	
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ľ	pages* pages*	received by this Authority on	
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	a seque	nce listing and/or any related table(s) — see Supplemental Box Relating to Sequence List	mg.
Ì			
3.	The am	nendments have resulted in the cancellation of:	
3.			
ŀ	=	he description, pages	
.	٠ ـــــــا	the claims, Nos.	
	t	the drawings, sheets/figs	
		the sequence listing (specify):	
1		any table(s) related to sequence listing (specify):	
1			
4.	made, (Rule	eport has been established as if (some of) the amendments annexed to this report and since they have been considered to go beyond the disclosure as filed, as indicated 70.2(c)). the description, pages the claims, Nos	listed below had not been in the Supplemental Box
1		the drawings, sheets/figs	
		the sequence listing (specify):	
1			
l l		any table(s) related to sequence listing (specify):	
* If it	tem 4 apı	olies, some or all of those sheets may be marked "superseded."	
1 3			

International application No.

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Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questic	ons whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially have not been examined in respect of:
☐ t	he entire international application.
\boxtimes \circ	claims Nos1, 3-9, 11-14
because:	
	the said international application, or the said claims Nos. 1, 3-9, 11-14 relate to the following subject matter which does not require an international preliminary examination (specify):
Claim	as 1, 3-9, and 11-14 are a computer program, which does not require an international
prelimina	ary examination by the International Preliminary Examining Authority.
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	the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):
	are so unclear that no meaningful opinion could be formed (specify).
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	the claims, or said claims Nos are so inadequately supported
 	by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos.
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
	the written form has not been furnished
	does not comply with the standard
	the computer readable form has not been furnished
	does not comply with the standard
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	see Supplemental Box for further details.

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- Citations and Capinia	ions supporting such staten		
. Statement			
Novelty (N)	Claims	2, 10	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	2, 10	NO
· Industrial applicability (IA)	Claims	2, 10	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 3-191032, A (NATIONAL RESEACH INSTITUTE FOR METALS), 21 August 1991 (21.08.91), claims & GB, 2241358, A

Document 2: "Ni-ki Chogokinchu no Hakkinzoku Genso no γ/γ' Sobunpai," (YOKOKAWA ET AL.), Nippon Kinzoku Gakkaishi, September 2002, Vol. 66, No. 9, pages 873-876

Document 3: "Dai 4 Sedai Ni-ki Ichihoko Gyoko Chogokin no Sekkei," (KOBAYASHI, ET AL.), Nippon Kinzoku Gakkaishi, September 2002, Vol. 6, No. 9, pages 897-900

Document 4: JP, 2002-146460, A (DOKURITSU GYOSEI HOJIN BUSSHITSU – ZAIRYO KENKYU KIKO), 22 May 2002 (22.05.02), claims & EP, 1184473, A2 & US, 2002-62886, A1

Document 5: JP, 5-5143, A (GENERAL ELECTRIC COMPANY), 14 January 1993 (14.01.93), claims & EP, 434966, A1 & US, 5151249, A1 & CA, 2029539, A1

Document 6: HARADA, H et al., "Phase Calculation and Its Use in Alloy Design Program for Nickel-Superalloys," Superalloys 1988, 1988, pages 733-742

Claims 2 and 10

The subject matter of claims 2 and 10 does not involve an inventive step on account of documents 1-6 cited in the ISR. The γ ' precipitation strengthened Ni-based superalloy design support device described in documents 1 and 6 and the γ ' precipitation strengthened Ni-based superalloy with added platinum-group elements such as Ru described in documents 2-5 belong to closely related technical fields, so employing the γ ' precipitation strengthened Ni-based superalloy design support device described in documents 1 and 6 in the γ ' precipitation strengthened Ni-based superalloy with added platinum-group elements described in documents 2-5 could easily be conceived by a person skilled in the art.